

The Evolving Landscape of Scholarly Publishing

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Technology



1436 - Gutenberg printing press



1698 - Steam Engine



1876 - Telephone

1903 - Aeroplane

1908 - Automobile (Ford model T)

1965 - Mainframe Computer

1969 - ARPANET

1977 - Personal Computer

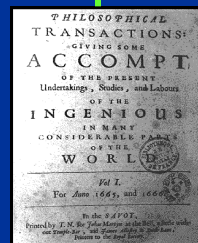
1983 - Internet TCP/IP

1991 - WWW

2010 - iPad



1665 - Journal des Scavans



1755 - Philosophical Transactions

1992 - Online Journal of Current Clinical Trials
1997 - Medline (Free)
2003 - Open Access

Publishing

Evolution of Scholarly Publishing

Learned societies

~ 1660s

Commercial publishers

~ 1945

Electronic publishing

~ mid 1990s

Mega publishers

~ 2010s

Open Access

~ 2000

Characteristics of Scholarly Publishing

Option	Access	Timing	Peer-Reviewed	Responsibility for perpetual access	Business Model	Examples
Traditional print journals	Restricted	Delayed - until issue is published	Yes	Libraries	Subscription (pay to read)	Most commercial and non-profit publishers
Traditional online journals	Restricted	Delayed (usually) - until issue is published online	Yes	Varies (ranges from publisher to online archives to Libraries' web-server)	Subscription	Most commercial and non-profit publishers
Open Access online journals	Unrestricted	Immediate (usually) - when articles are accepted or editing is complete	Yes	Unknown	Author and/or author's institution pays (membership or article processing fees)	BioMed Central , Public Library of Science , Oxford University Press, Springer (only by author's choice). See the Directory of Open Access Journals for a complete list.

Characteristics of Scholarly Publishing

Option	Access	Timing	Peer-Reviewed	Responsibility for perpetual access	Business Model	Examples
Institutional Repositories Accommodates various content	Unrestricted	Immediate	Possible - depends on content type and policy	Libraries (usually)	Institutional support	<u>UM's Digital Conservancy</u> , <u>MIT's DSpace</u>
Working papers / pre-prints	Unrestricted	Immediate	Possible	Libraries (usually)	Institutional support	<u>UM's Digital Conservancy</u> , <u>MIT's DSpace</u>
Re-prints / post-prints	Unrestricted	Immediate	Yes	Libraries (usually)	Institutional support	<u>UM's Digital Conservancy</u> , <u>MIT's DSpace</u>
Primary source data	Unrestricted	Immediate	Possible	Libraries (usually)	Institutional support	None yet

Adapted with permission from Characteristics of Scholarly Publishing Options, University of California Office of Scholarly Communication.

Characteristics of Scholarly Publishing

Option	Access	Timing	Peer-Reviewed	Responsibility for perpetual access	Business Model	Examples
Other content (instructional materials, etc.)	Unrestricted	Immediate	Possible	Libraries (usually)	Institutional support	<u>UM's Digital Conservancy</u> , <u>MIT's DSpace</u>
Disciplinary repository	Unrestricted	Immediate - when item is deposited	Yes for included post-prints	Unknown	Institutional support	arXiv, Pubmed Central, CogPrints
Departmental and personal web sites	Unrestricted	Immediate - when item is deposited	Can be quality filtered	Unknown	Institutional support (may be informal)	Many univ departments have separate web sites

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Situation Today

- The more articles a publisher publishes, the more money it makes.

And it works the same way in universities:

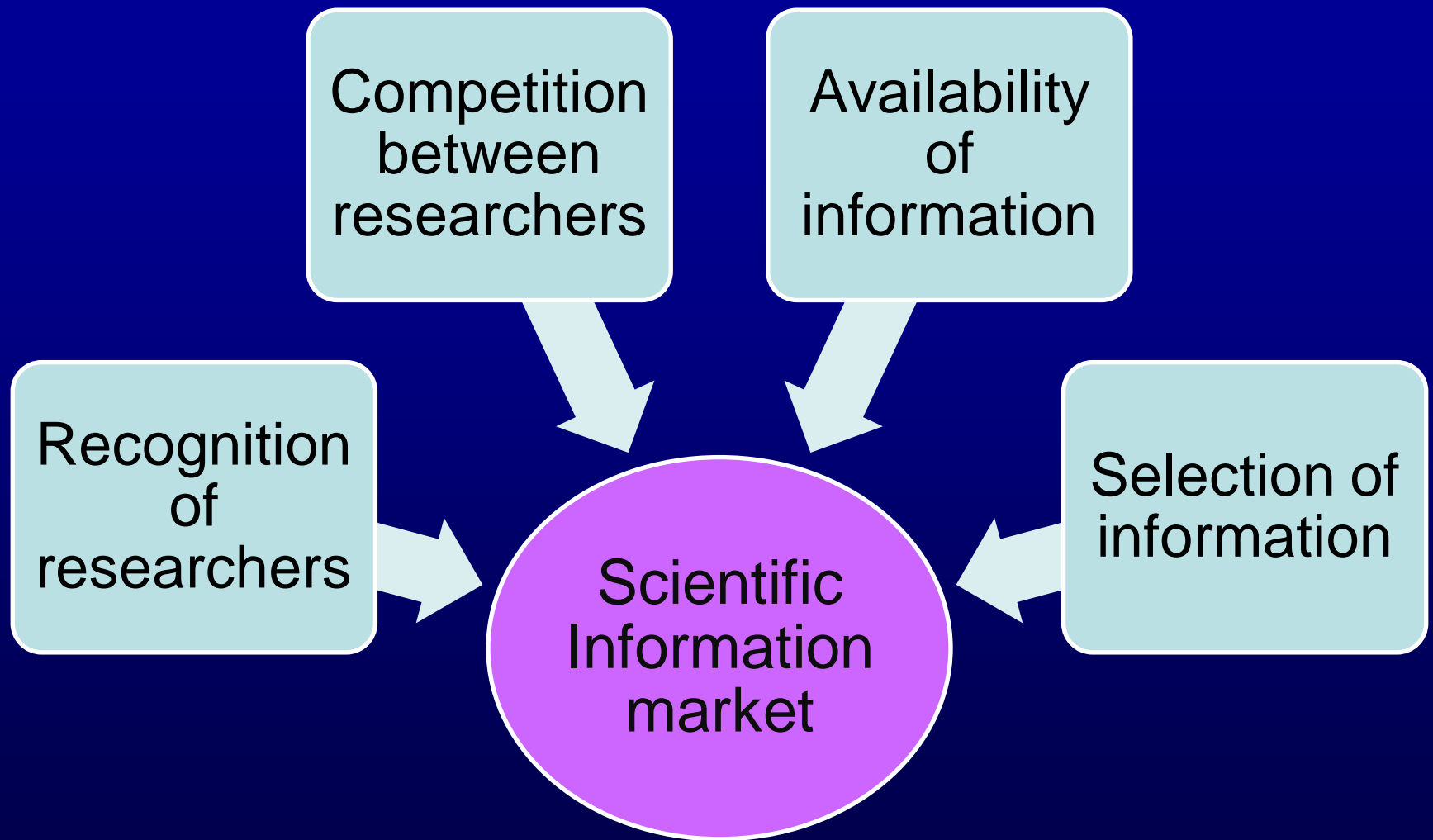
- The more articles an academic publishes, the better his or her chances at promotion, tenure, salary increases, and ...
- The higher is the university ranking

A 'good' journal is one that prides itself on a high impact factor & high rejection rate. Similarly, 'good' research is research with rigour, which cites and is cited by other articles in other 'good' journals, in which it is extremely difficult to get published, because it prides itself on high impact factor ...

There are two results of this circular situation:

1. It creates an introspective, even closed, environment, where 'insiders' are communicating with, writing for and citing 'other insiders, in which it's difficult for new and disruptive (new) ideas to break through.

2. The process of submission and publication becomes extremely slow.



Subscription model/ Open access
Supply-oriented, Publisher-centred

Vs.

Demand-oriented, Research-centred
e-Science

Open access tells us about:

- method of dissemination
- whether we can reuse the information
- whether the article is archived

Open access does NOT tell us about:

- The scope of the journal
- The quality of the journal
- The language of the journal
- The review process of the journal
- The reputation of the journal

Mega Publishers



Scientific Research
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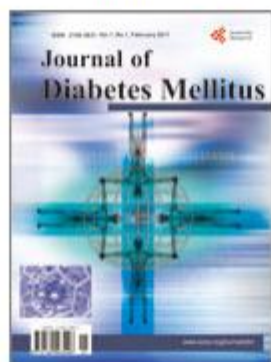
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Resources

- [Paper Submission](#)
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Scientific Research Publishing (SCIRP: <http://www.scirp.org>) is an academic publisher of open journals. It also publishes academic books and conference proceedings. SCIRP currently has more than 20 access journals in the areas of science, technology, and medicine.



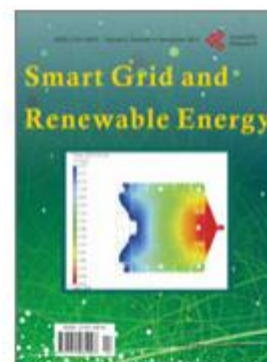
JDM



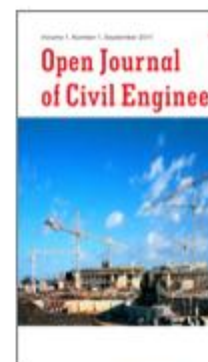
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Health



SGRE



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Express submission and peer-review system

Express Submission and Peer-review System ▼

Bentham Science Publishers

BENTHAM SCIENCE: AN INTRODUCTION

中文 (C)

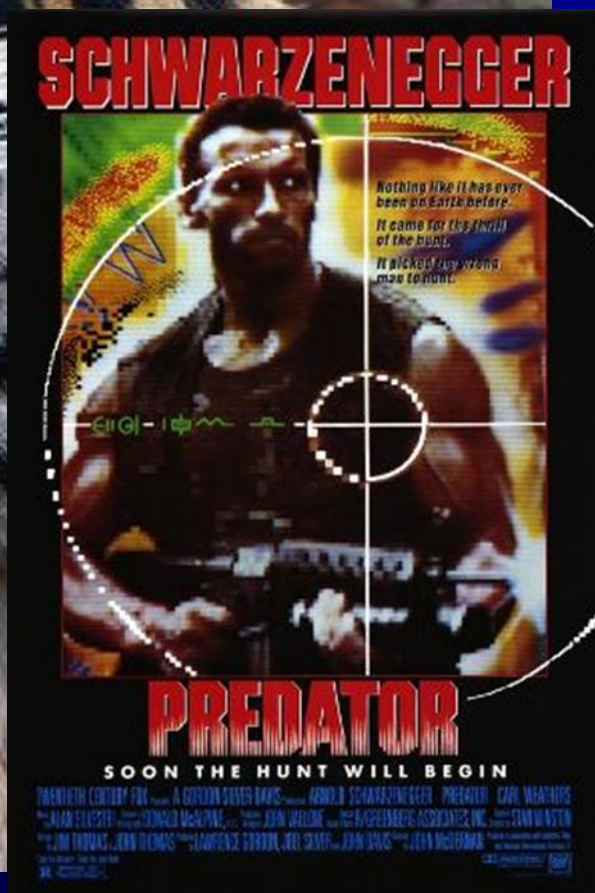


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Leading journals include **Current Pharmaceutical Design** (Impact Factor 3.87) and **Current Medicinal Chemistry** (Impact Factor 4.859, the top journal in its field endorsed by several Nobel Laureates). Other profile journals include **Current Topics in Medicinal Chemistry** (Impact Factor 4.174), **Current Metabolism** (Impact Factor 5.113), **Current Drug Targets** (Impact Factor 3.553), **Current Molecular Medicine** (Impact Factor 4.476) and **Current Cancer Drug Targets** (Impact Factor 4.327).

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Scholarly Open Access

Critical analysis of scholarly open-access publishing

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List of Publishers

Beall's List of Predatory Open-Access Publishers

This is a list of questionable, scholarly open-access publishers. I recommend that scholars not do any business with these publishers, including submitting articles, serving as editors or on editorial boards, or advertising with them. Also, articles published in these publishers' journals should be given extra scrutiny in the process of evaluation for tenure and promotion.

- [A M Publishers](#)
- [Academe Research Journals](#)
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- [Academic Journals](#)
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Predatory, open-access publishers

- *Unprofessionally* exploit the *author-pays model* of open-access publishing (Gold OA) for their own profit.
- *spam* professional email lists
- largely *soliciting article* submissions for the clear purpose of gaining additional income.
- Operating essentially as vanity presses, have a *high article acceptance rate*, with a false-front or non-existent peer review process.

Predatory, open-access publishers

- They *add little value to scholarship*, pay little attention to digital preservation, and operate using fly-by-night, unsustainable business models.

**Submit your article for a decision within 14 days, or
receive a full waiver**

Dear Dr. Ng,

[QScience Connect](#) the interdisciplinary, open access journal covering [ALL FIELDS](#), offers researchers a 14-day time-to-first decision on all submissions to the journal. If we do not return the referee reports and first editorial decision within 14 days of submission, we will grant you a full waiver on the article processing charge.

[QScience Connect](#) welcomes submissions from [ALL fields](#) and will publish those manuscripts which meet the simple criteria of being conducted in the appropriate manner, with conclusions concurrent with results (where appropriate).

We do not set a threshold of perceived importance for the papers that it publishes; rather, [QScience Connect](#) will publish all papers that are judged to be technically valid and original. We believe this is an ideal model for online publishing as all papers based on correct methods and valid findings will be afforded a home in a peer-reviewed journal. This includes interdisciplinary work that, traditionally, may have fallen between the aims and scopes of two journals.

Submit your article for a decision within 14 days, or
receive a full waiver





From: [REDACTED]
Sent: 12 June 2012 10:43
To: [REDACTED]
Subject: Invitation to submit a commissioned Spotlight Article for ISRN Oceanography

Dear [REDACTED],

My name is [REDACTED] and I am an Editorial Developer for the International Scholarly Research Network. I am writing to you because we are in the process of commissioning a number of Spotlight Articles to be published in 2012 in ISRN Oceanography, and I would like to know whether you would potentially be interested in writing one of these Spotlight Articles.

One important feature of Spotlight Articles is that they must be single author manuscripts, and we only solicit a handful of these articles per year from leading researchers in each field. In recognition of the effort that is required in order to put such an article together, we provide an honorarium of \$1,000 upon the completion of a Spotlight Article. In addition, the article will be published on an Open Access basis, meaning that it will be made freely available to all interested readers and the author of an article will retain the copyright of their work.

Table 1. Differences significant (*) traceability between Ethanol and FAEE after administration of 20% ethanol acutely

	Ethanol		FAEE		
	6hour s	24hours	6hour s	24hour s	pValue
20 %	3.00	1.20	1.80	2.40	<0.05*

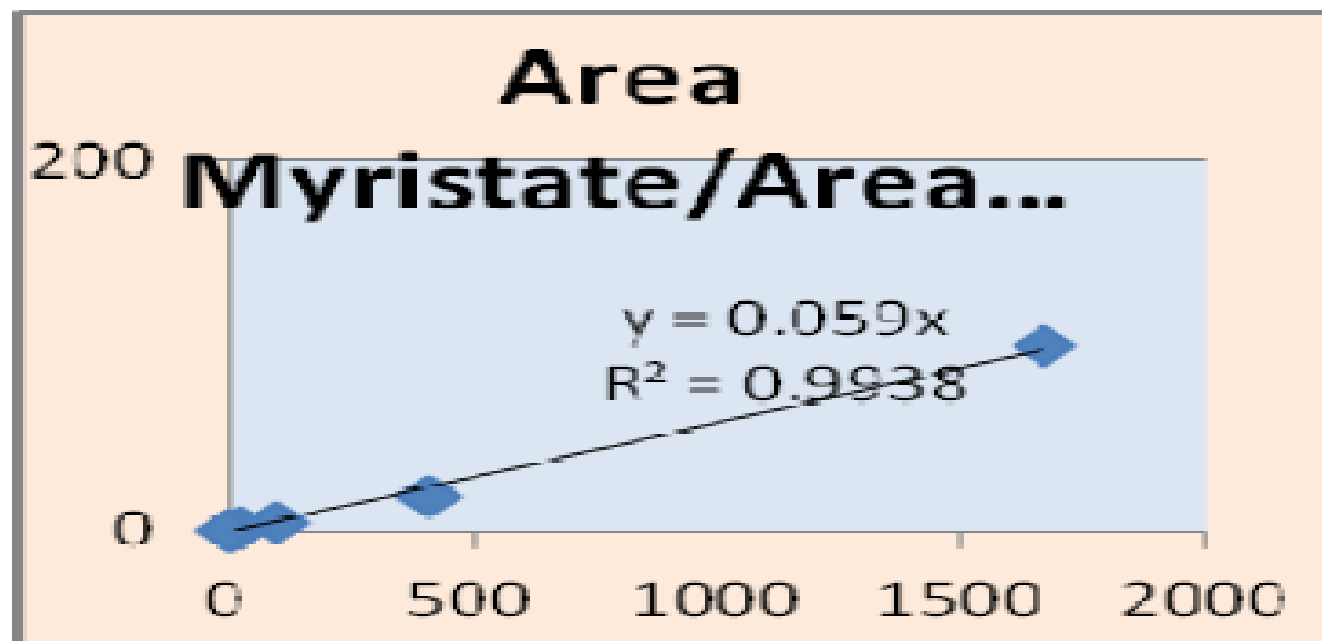


Figure 3. Calibration curve of myristate with ethyl hexanoate as standard internal

Crisis looming

- Publishing frenzy: over-publishing, uncontrolled proliferation of journal articles, mostly of low quality
- Mainly motivated by simplistic methods to evaluate faculty productivity by universities.
- Scholars are unable to keep up with research in their fields, as their searches mostly result in low-quality research.
- The race to “publish or perish” may have an adverse effect on academic publishing as a whole.

How Libraries Can Help in Disseminating Access to Scholarly Publications

1. Manage training on print/online access and retrieval techniques.
2. Resource sharing through networking and collaboration with librarians, editors and publishers.
3. Ensure that access to publications available in the library website are reliable.
4. Preserve scholarly publications by archiving and indexing.



World Health
Organization

Global Health Library



Western Pacific Region Index Medicus



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Asia Pacific Medical Journal Articles Central Archives (APAMED Central)

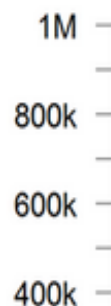
altmetrics: a manifesto

NO ONE CAN READ EVERYTHING. We rely on filters to make sense of the scholarly literature, but the narrow, traditional filters are being swamped. However, the growth of new, online scholarly tools allows us to make new filters; these altmetrics reflect the broad, rapid impact of scholarship in this burgeoning ecosystem. We call for more tools and research based on altmetrics.

As the volume of academic literature explodes, scholars rely on filters to select the most relevant and significant sources from the rest. Unfortunately, scholarship's three main filters for importance are failing:

- Peer-review has served scholarship well, but is beginning to show its age. It is slow, encourages conventionality, and fails to hold reviewers accountable. Moreover, given that most papers are eventually

**MEDLINE-indexed articles
published per year**



<http://altmetrics.org/manifesto/>

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call for papers

A PLoS One collection



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scholarly impact on the
social Web

workshop

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Priem et al

Impact



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downloads
views



Peer-review

expert opinion



Citations



Alt-metrics

storage
links
bookmarks
conversations

A Glimpse of the Future

- Scientific communication and research will not be the same anymore.
- The Internet and information technology are already impacting on the research landscape, scholarly publishing, research policy and funding, dissemination of knowledge, and the progress of science as a whole.
- Social media will alter the landscape.



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